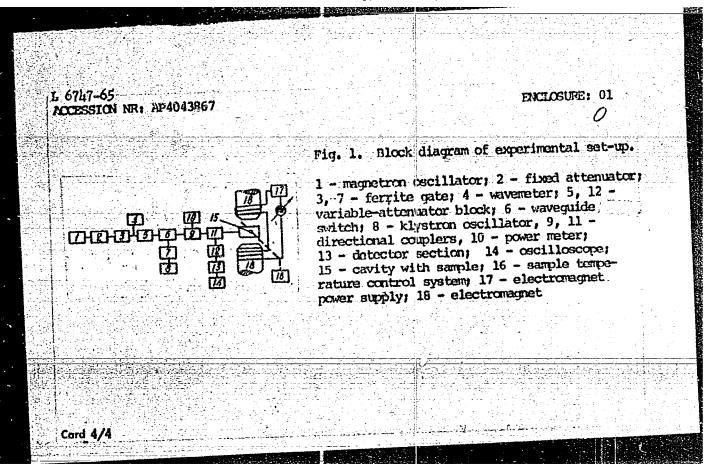
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### "APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240



KHLYSTOV, A.S.; PETRAKOVSKIY, G.A.

Effect of additions of copper and cobalt on the characteristics of nickel chromium ferrites. Izv. vys. ucheb. zav.; fiz. no. 1:222-227 60. (MIRA 13:12)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete imeni V.V. Kuybysheva. (Nickel chromium ferrate)

KHLYSTOV, A.S.; ZHILYAKOV, S.M.; PETRAKOVSKIY, G.A.

Magnetic characteristics of nickel-chromium ferrites. Izv.vys. ucheb.zav.; fiz. no.6:168-169 '59. (MIRA 13:6)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosuniversitete imeni V.V.Kuybysheva. (Nickel ferrates--Magnetic properties)

(Chromium ferrates--Magnetic properties)

# PETRAKOVSKIY, G. A.

Effect of volume and surface imperfections on the relaxation of spin waves in ferrates. Izv. vys. ucheb. zav.; fiz. no.6: 125-131 62. (MIRA 16:1)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete imeni Kuybysheva.

(Ferromagnetic resonance)
(Nuclear spin)

# PETRAKOVSKIY, G. A.

Effect of crystallographic anisotropy on the parametric excitation of spin waves in ferrate single crystals. Izv. vys. ucheb. zav.; fiz. no.6:29-37 '62. (MIRA 16:1)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete imeni Kuybysheva.

(Ferrate crystals) (Nuclear spin)
(Magnetic fields)

24,7900

\$/139/60/000/01/037/041

AUTHORS:

Khlystov, A.S. and Petrakovskiy, G.A.

TITLE:

The Effect of Copper and Cobalt Additions on the

Properties of Nickel-chromium Ferrites 21

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Fizika.

1960, Nr 1, pp 222 - 227 (USSR)

ABSTRACT:

The authors studied nickel-chromium ferrites with additions of cobalt and copper to determine the optimum compositions and technology of manufacturing temperature-resistant ferrites for 10 cm range resonance rectifiers. Optimum amounts of copper and cobalt additions were

found to produce ferrites capable of operating at higher temperatures, maintaining a minimum width of their ferromagnetic-resonance curves. The Curie point of the ferrites

magnetic-resonance curves. The Curie point of the ferrites is in the vicinity of 400 °C. The initial ferrite powders were compacted under pressure of 2 t/cm<sup>2</sup>; initial roasting temperature for ferrites with copper additions was 900 °C for 6 hours; for ferrites with

cobalt additions it was 1 100 °C for 8 hours. The roasted compacts were ground in a vibromill. The components were pressed at 2 t/cm. Eight percent by weight of a 10%

Card1/3

69459 S/139/60/000/01/037/041

The Effect of Copper and Cobalt Additions on the Properties of Nickel-chromium Ferrites

water solution of polyvinyl alcohol was introduced as a binder. The final roasting temperature was 1 150 °C for 20 hours (copper added) and 1 350 °C for 12 hours (cobalt added). Measurements of finished specimens show that the width of the ferromagnetic resonance curve is \$\Delta \text{II} = 500 0e for \text{Ni} \text{0.985} \text{Co.015} \text{Cr} \text{0.7} \text{Fe}\_{1.3} \text{0}\_4 \text{ and Ni} \text{0.980} \text{Co} \text{0.020} \text{Cr} \text{0.7} \text{Fe}\_{1.3} \text{0}\_4 \text{ferrites} (\text{Figure 3}). This makes it possible to use them in the OHF range. Rectifiers made from these ferrites and placed on the wider waveguide wall in the optimum position produced a forward loss of 0.5 db and a backward loss of 17 db at 2 980 Mc/s; the standing-wave ratio did not exceed 1.1.

There are 4 figures and 15 references, 4 of which are Soviet, 9 English, 1 French and 1 translation from English into Russian.

Card 2/3

\$/139/60/000/01/037/041

The Effect of Copper and Cobalt Additions on the Properties of Nickel-chromium Ferrites

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom

gosuniversitete imeni V.V. Kuybysheva

(Siberian Physico-technical Institute of Tomsk State

University imeni V.V. Kuybyshev)

SUBMITTED: April 10, 1959

4

Card 3/3

PETRAKOVSKIY, G.A.

Problem of parametric excitation of magnetostatic oscillations of magnetization in a ferrite sample. Izv.vys.ucheb.zav.;fiz. 2:158-164 '62. (MIRA 15:7)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete imeni Kuybysheva.

(Ferrates-Magnetic properties)

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5/139/62/000/006/006/032 E039/E435

是全国的国际的人们的证据的对象。

14:7900

Petrakovskiy, G.A.

**AUTHOR:** TITLE:

The effect of crystallographic anisotropy on the

parametric excitation of spin waves in single crystal

ferrites

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Fizika,

no.6, 1962, 29-37

The effect of crystallographic anisotropy on the value of the critical field hcrit necessary for the excitation of spin TEXT: waves in a magnetized ferrite under the action of a continuous high frequency magnetic field is investigated. Measurements are made on single crystals of Mg-Mn and non-stoichiometric Mn ferrite in the 3 cm region. The anisotropy leads to a change in the spin wave spectra of the ferrites and subsequently on the value of the static magnetic field Ho which fulfills the condition

$$\omega_{\mathbf{k}} = \frac{\omega_3}{2}$$

 $\omega_{\mathbf{k}}$  is the spin wave frequency and  $\omega_3$  is the frequency of the high frequency field for spin waves with the wave vector Card 1/3

#### "APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240 **新聞 图 10 日本公司 10 日本 10**

The effect of crystallographic ... s/139/62/000/006/006/032

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosuniversitete imeni V.V.Kuybysheva (Siberian

Physicotechnical Institute at Tomsk State University

SUBMITTED: February 8, 1962

Card 3/3

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24. TECO

5/139/62/000/006/019/032 E039/E435

**AUTHOR:** 

Petrakovskiy, G.A.

TITLE:

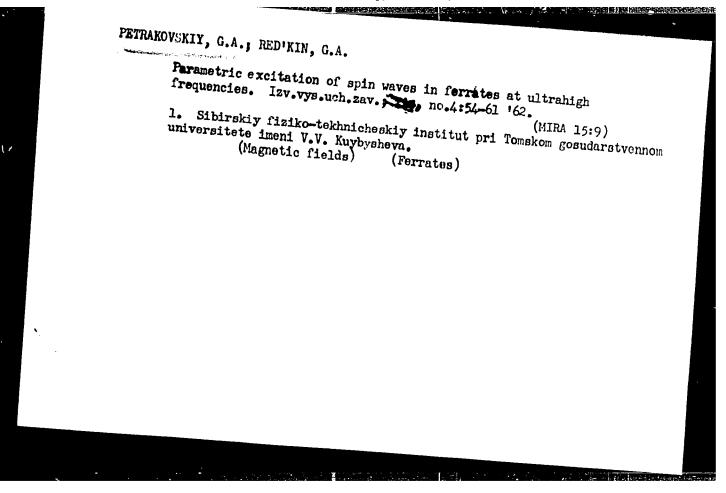
The effect of volume and surface imperfections on the

relaxation of spin waves in ferrites

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Fizika, no.6,

1962, 125-131

TEXT: Measurements are made on spin waves excited by continuous H.F. magnetic fields on magnetized ferrite samples. The apparatus used is as described in an earlier paper (Izv. VUZ Fizika, no.4, The single-crystal samples of yttrium, Nn and Mg-Nn 1962, 54). ferrites in the form of spheres 1 to 3 mm in diameter are used in a type TE101 resonator and the magnetic field is orientated along the (111) axis. The width of lines of the ferromagnetic resonance spin waves  $\Delta \mathtt{H}_{\mathbf{k}}$  from single crystals of  $ar{\mathtt{M}}\mathtt{n}$  and  $\mathtt{Mg-Mn}$ ferrites show little dependence on the surface treatment of the samples and hence must be associated with volume imperfections.  $\Delta H_{\mathbf{k}}$  for long spin waves from single crystals of yttrium ferrites shows a dependence on the condition of the surface of the investigated sample. The mechanism of the increase in  $\Delta H_{\mathbf{k}}$ Card 1/2



PETRAKOVSKIY, G.A.; RED'KIN, G.A.

Parametric excitation of spin waves in ferrates at ultrahigh frequencies. Izv.vys.uch.zav. no.4:54-61 '62.

(MIRA 15:9)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete imeni V.V. Kuybysheva.

(Magnetic fields) (Ferrates)

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37725 s/139/62/000/002/024/028 E032/E514

AUTHOR:

Petrakovskiy, G.A.

TITLE:

On the parametric excitation of magnetostatic

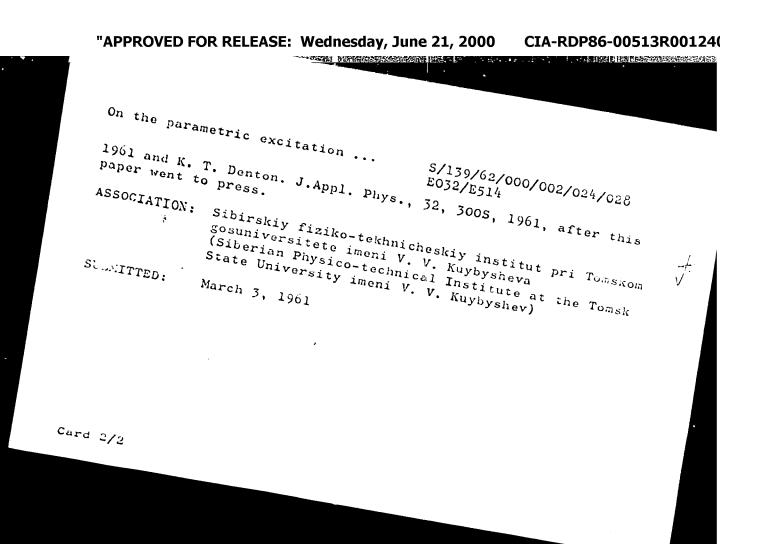
oscillations in the magnetization of a ferrite specimen

Card 1/2

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika,

no.2, 1962, 158-164

The behaviour of magnetostatic oscillations in the TEXT: magnetization of a ferromagnetic spheroid (L. R. Walker. Phys. Rev., 105, 590, 1957) under the action of a UHF magnetic field parallel to the constant external magnetic field is discussed. A parametric coupling between the magnetostatic oscillations with proper frequencies  $\omega_1$  and  $\omega_2$  and the exciting UHF field at a frequency  $\omega_5 = \omega_1 + \omega_2$  is possible. The conditions for this to occur are derived. It is also shown that when a certain critical amplitude of the UHF field is reached there is complete compensation of losses and an exponential increase of certain definite types of the magnetostatic oscillations takes place. Analogous work was published by E. Schlömann and R. I. Joseph. J. Appl. Phys., 32, 1006,



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**S/1**39**/5**9**/000/0**6**/**026**/**034

B201/B191

AUTHORS:

Khlystov, A.S., Zhilyakov, S.M., and Petrakovskiy, G.A.

TITLE:

Magnetic Properties of Nickel-Chromium Ferrites 2/

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika,

1959, Nr 6, pp 168-169 (USSR)

Card

1/4

ABSTRACT: Nickel-chromium ferrites (NiFe2-aCra04) were prepared by the usual ceramic techniques from "ch" and "chda" oxides taken in stoichiometric ratios. The oxides were mixed in steel-ball mills for 24 hours (using ethyl alcohol).

After drying, the mixtures were subjected to a preliminary 6-hour heating in a Silit electrical furnace at 1100 °C. Then the materials were quenched by rapid cooling in air. Powders obtained in this way were ground and pressed (2-3 tons/cm<sup>2</sup>) into samples of required

shape, using polyvinyl alcohol as a binder. Finally the samples were fired at 1300 °C for 12 hours and cooled at

the rate of 600 per hour. The measured magnetic

properties of the samples are given in Figs 1 and 2 and Saturation magnetization, 4 TM, was measured Table 1.

at room temperature; it is given as a function of

composition (a ranging from 0 to 1.0) in Fig 1 (upper

(3)

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Magnetic Properties of Nickel-Chromium Ferrites

curve) and Table 1 (column 2). The value of  $4\pi M$  is reduced by introduction of chromium ions into the ferrite: it falls from 2300 gauss at a=0 to practically zero at a=1.0. This behaviour can be explained in terms of Neel's theory (Ref 1). Chromium ions which have the tendency to six-fold coordination (Ref 2) occupy octahedral compositions up to compositions with a=1. Then the structural formula of the ferrite is:

$$Fe[NiFe_{1-a}Cr_a]O_{4}$$
 (1)

Magnetization at the absolute saturation of a ferrite with the structure given by Eq (1) is:

$$\{[2 + (1-a)5 + a \cdot 3] - 5\} \mu B = 2(1-a) \mu B$$
 (2)

The above equation shows that magnetization of the ferrite passes through zero approximately at

Card 2/4

a = 1
which agrees qualitatively with the results obtained

**S/139/59/000/06/026/034 B201/B191** 

Magnetic Properties of Nickel-Chromium Ferrites

1 is Soviet, 1 French and 1 English.

(Fig 1). The results obtained show that at concentrations 0.4 < a < 0.8 the materials with a comparatively high Curie point ( $T_c = 480-200$  °C) and low saturation magnetization can be obtained. This is of practical importance since the lower frequency limit of very-high-frequency ferrite devices is governed by the losses due to ferromagnetic resonance. This frequency limit is given by (Ref 3)

 $\frac{\omega}{\Upsilon} > 4 \pi M + \frac{2|K_1|}{M} \tag{4}$ 

where K<sub>1</sub> is the first constant of magnetic anisotropy of a cubic crystal, το is the angular frequency of e.m. waves and γ is the magneto-mechanical ratio. Fig 2 and column 5 of Table 1 show that the initial permittivity μ<sub>0</sub> (at 100 c/s) falls sharply with increase of the chromium content. Values of the Curie point, coercive force (in 0e) and density (in g/cm<sup>3</sup>) are listed in columns 3, 4 and 6 of Table 1.

There are 2 figures, 1 table and 3 references, of which

Card 3/4

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B201/B191

Magnetic Properties of Nickel-Chromium Ferrites

Note: This is a complete translation apart from the Table.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom

gosuniversitete imeni V.V. Kuybysheva (Siberian Physico-Technical Institute at Tomsk State University imeni V.V. Kuybyshev)

SUBMITTED:

February 21, 1959

Card 4/4

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

ETRAKOUSKIY G.A.: FUKHOV, I.K.

Anisotropy and temperature dependence of the damping parameter of spin waves in ferrite single crystals. Izv. vys. ucheb. zat.; fiz. 8 no.4:72-75 '65. (MIRA 18:12)

1. Sibirskiy fiziko-tekhnicheskiy institut imeni V.D. Kuznetsova. Submitted December 29, 1963.

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ACC NR. AR5004341

SOURCE CODE: UR/0274/65/000/009/8073/8073

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AUTHOR: Petrakovskiy, G. A.

REF SOURCE: Dokl. Nauchno-tekhn. konferentsii, posvyashch. dnyu radio. Tomskiy un-t, 1964, 131-137

TITLE: Homlinear theory of fluctuations in the degree of magnetization of a ferrite disk

SOURCE: Ref. mh. Radiotekhnika i elektrosvyaz', Abs. 98518

TOPIC TAGS: ferrite, SHF, magnetization

TRANSLATION: The problem of parametric excitation by a transverse SHF field of uniform magnetization precession in a disk, magnetized parallel to a plane, is solved. The method of Krylov and Bogolyubov is used to determine the steady state amplitude and the conditions for excitation. The dependence of the imaginary part of the susceptibility  $\chi''$  upon the pumping power P coincides with  $\chi''(P)$  for the complemented maximum for the perpendicular pumping obtained by Soole. N. S.

SUB CODE: 09/

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UDC: 621.373.93

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### "APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

ACC NR: AP6032550 SOURCE CODE: UR/0139/66/000/004/0171/0173

MANAGEMENT ENGENHEEM STATES OF THE STREET STATES

AUTHOR: Petrakovskiy, G. A.; Litovchenko, V. F.

ORG: Siberian Physicotechnical Institute im. V. D. Ku tsov (Siberskiy fizikote hnic eskiy institute)

TITLE: Magnetic characteristics of yttrium-gallium and yttrium-gallium-gadolinium ferrites

SOURCE: IVUZ. Fizika, no. 4, 1966, 171-173

TOPIC TAGS: thermostable magnetization, SHF ferrite device, yttrium, gallium, gadolinium, ferromagnetic resonance, funite, mognetic property, magnetization

ABSTRACT: Measurement results of some magnetic properties of yttrium-gallium and yttrium-gallium-gadolinium ferrites are presented. These ferrites are of special interest from the point of view of the possibility of obtaining materials with thermostable magnetization [at comparatively high Curie temperature] and low value of magnetization within the range of thermostability. Sixteen ferrite samples were prepared according to standard technological methods. The following parameters were measured: apparent density, line width of ferromagnetic resonance of uniform magnetization precession  $\Delta H_0$  by 10 cm at room temperature, lattice constant, and magnetization of saturation  $4\pi M$  depending on temperature. Measurements of the relationship between the line width of ferromagnetic resonance and temperature were also taken

Card 1/2

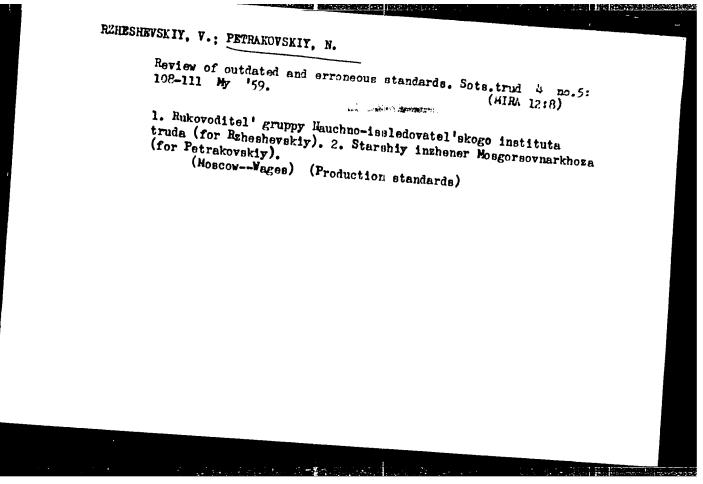
## AP6032550

for a number of ferrites. Results of temperature relationship measurements for yttrium-gallium ferrites magnetization showed that magnetization decreases sharply as gallium content increases from x = 0.00 to x = 0.20. Apparent density rises linearly with the increase of gallium content from 4.25 at x = 0.00 to 4.75 at x = 0.20. Lattice constant decreases linearly from 12,376 Å at x = 0.00 to 12,358 Å at x = 0.20. Similar measurements for yttrium-gallium-gadolinium ferrites revealed magnetization compensation points on the magnetization temperature curve; the position of these points can be adjusted by varying the gallium content. Ferrites with x = 0.10 and x = 0.15 are magnetically thermostable. The lattice constant rises when yttrium is substituted for gadolinium. The reverse phenomenon takes place if gallium is substituted for iron in the ferrites of formulas (2). The density of all the ferrites was approximately 5.05 g·cm<sup>-3</sup>. SHF measurements showed that for all ferrites the line with  $\Delta H_0$  rises when the content of gallium and gadolinium increases, and the value of ΔH<sub>0</sub> does not surpass 240 oe. Orig. art. has: 3 figures.

SUB CODE: 20/ SUBM DATE: 15Apr65/ ORIG REF: 001/ OTH REF: 002/

2/2

# "APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240



BELEN'KIY, G.I.; REYTER, M.Ye.; IVANOV, V.M.; KALINKIN, V.S.;

KOZHUSHKEVICH, V.G.; PETRAKOVSKIY, V.M.; RABINOVICH, A.A.;

RUBINSKIY, I.A.; SINAYSKIY, M.M.; FEYLER, G.O.;

KHOROSHILKIN, L.L.; KOMAR, M.A., red.; BUL'DYAYEV, N.A.,

tekhn. red.

[Electrical equipment of cranes] Elektricheskoe oborudovanie kranov. Moskva, Gosenergoizdat, 1963. 399 p.

(MIRA 16:12)

1. Kollektiv inzhenerov moskovskogo zavoda "Dinamo" imoni
S.M.Kirova (for all exept Komar, bul'dyayev).

(Cranes, derricks, etc.—Electric equipment)

PHTRAKOVSKIY, Viktor Mikhaylovich; SINAYSKIY, M.M., red.; BORUNOV, B.I., tekhn.red.

The second secon

[Alternating current electric crane motors; manual on installation, maintenance, and repair] Kranovye elektrodyigateli peremennogo toka; rukovodstvo po ustanovke, ukhodu i remontu. Moskva, Gos.energ.izd-vo, 1959. 64 p.

(Kranovos elektrooborudovanie, no.1) (MIRA 12:6)

(Cranes, derricks, etc.) (Electric motors, Alternating current)

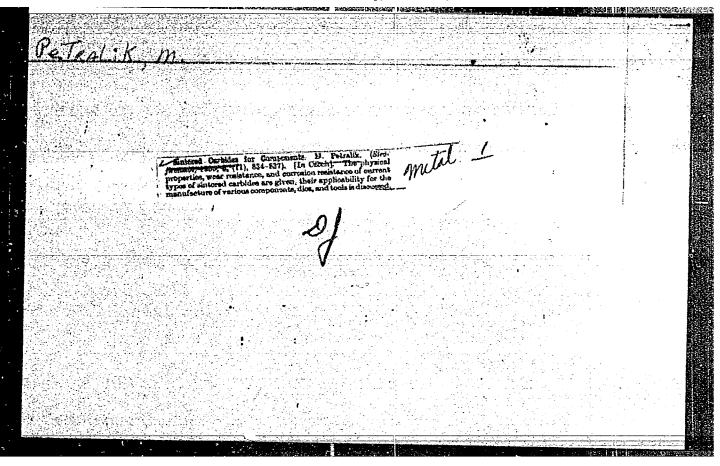
BUDANOV, G.V., otv. za vypusk,; REZNIKOV, A.I., otv. za vypusk.; PETRAKOVSKIY, Ya. A., red.; PEVZNER, A.S, red. 1zd-va,; TOKER, A.M., tekhn. red.

[Cost manual for the assembling of equipment] TSennik na montazh eborudovaniia. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam. No. 1. [Presses, metal-cutting, forging, end cutting equipment.] Metallorezhushchee, pressovoe, kuznechnoe i liteinoe oborudovanie. 1958. 49 p. (NIRA 11:12)

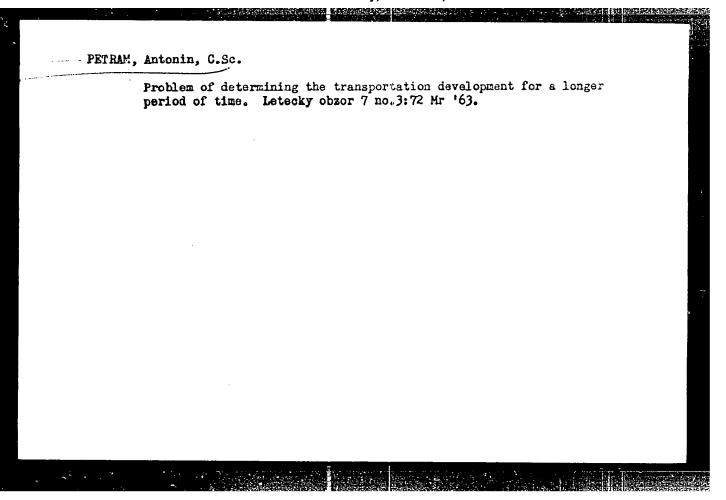
1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.

(Metalworking machinery)

### "APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240



### "APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240



### PETRAN, A.

Study on the species of Tintinnoidae along the Rumanian littoral of the Black Sea. p. 75.

HIDROHIOLOGIA. (Academia Republici Populare Romine. Comisie de Hidrologie, Hidrobiologie si Intiologie) Burcuresti, Rumania, Vol. 1, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 8, Aug. 1959

Uncl.

CONTRACTOR OF THE PROPERTY OF

BECHESKU, M. [Bacescu, M.] GOMQII, M.T. [Gomoiu, '.T.]; BODIANU, N. [Bodeanu, N.]; Additional, Philippe, G. "Miuller, G.] MANIA, V. [Manea, V.]

Ecologic investigations of the Black Sea. Rev biol 7 no. 4: 561-582 '62.

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### PETRAN, Adriana

Contributions to the knowledge of psammophile ciliate microfauna in the Black Sea on the Rumanian littoral. Studii cerc biol anim 15 no.2:187-197 163.

1. Comunicare prezentata de Th. Busnita.

### PETRAN, Adriana

Some considerations on the composition and qualitative variations of the marine zooplankton of the Rumanian Black Sea littoral. Comunicarile AR 12 no.1:71-77 Ja '62

1. Comunicare prezentata de Th. Busnita, membru corespondent al Academiei R.P.R.

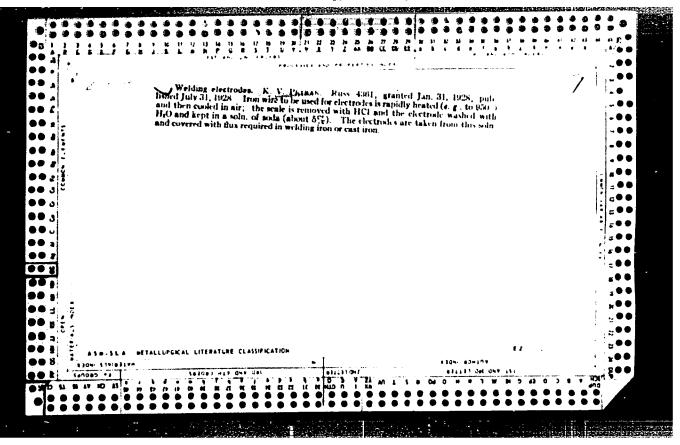
### BELIN, P.; BENCKO, V.; PETRAN, J.

Air pollution in Svit during 1962. Source of pollution, its characteristics and degree in relation to environment. Cesk. hyg. 9 no.2173-77 Nr. 64

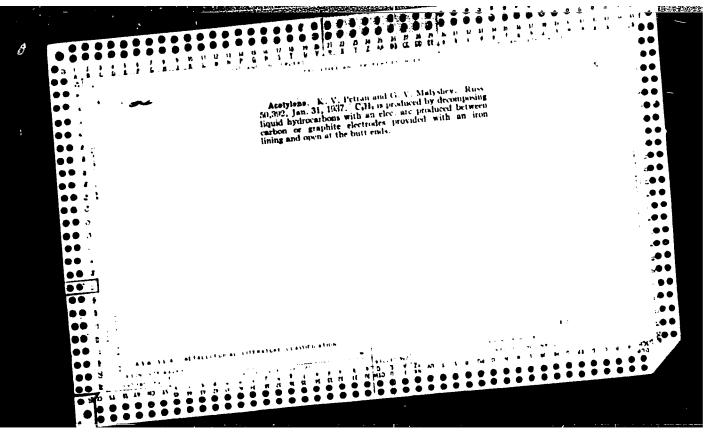
1. Okresna hygienicko-epidemiologicka stanica, Poprad.

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#### "APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240



"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240



PETRAN', K. V.

PA 18414

USSR/Welding - Electrodes Electrodes Aug 1947

"UONI - 13 Electrodes," K. V. Petran', N. M. Kizin, A. P. Bibikov, 6 pp

"Avtogennoye Delo" No 8

Electrodes with a coating of UONI - 13 permit better alloying of welding metal than electrodes with SiO<sub>2</sub>. This holds true in all cases except welding of Al or Ti. Discusses method of producing UONI-13 electrodes. Technology and methods of welding with these electrodes. Tables of results and observations of various experimental types of UONI - 13 (e.g., UONI - 13/45, UONI - 13/USSR/Welding - Electrodes (contd) Aug 1947. Electrodes

65, etc.) Also lists some altered forms of UONI - 13; e.g., UONI - 13/B for welding nonmetallic alloys with lead base, etc.

PETRAN' K. V.

181771

UBSR/Metals - Welding, Blectrodes

Dec 50

"Problems of Manufacturing Electrodes With High-Grade Coatings," K. V. Petran', Cand Tech Sci

"Avtogen Delo" No 12, pp 7-10

Reviews development of welding with coated electrodes, emphasizing effect of phys characteristics of coatings on chem compn of metal deposit. Describes 4 new electrodes of calciferous type, which may be used for welding with dc or ac with any joint position. Two variations are developed: for welding with shallow fusing and low heating of steel, and for deep welding.

181771

PETRAN', K. V.

USSR/Engineering - Welding, Materials

Sep 51

"Fabrication of UONI-13, UPI and UP2 Electrodes on Power Presses Under High Pressure," K. V. Petran', Cand Tech Sci

"Avtogen Delo" No 9, pp 16-19

Discusses shortcomings of manufg electrodes by power presses and measures for their elimination. Chief measure is modification of coatings by increasing water glass content and adding chalk and soda ash at expense of decreasing amts of quartz, marble and fluorspar. Gives mech properties and chem compn of weld metal.

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YESENBERLIN, Raynak Yesenberlinovich; PETRANI, E.V., kand. tekhn. nauk, retsenzent; VOLOGDIN, V.V., inzh., red.; BORODULINA, I.A., red. izd-va; POL'SKAYA, R., tekhn. red.

[Furnace brasing of metals in a gaseous atmosphere] Paika metallov v pechakh s gazovci sredoi. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 93 p. (NIRA 11:10) (Brasing)

30V/123-59-16-65198

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 16, p 213 (USSR)

AUTHOR:

Petran', K.V.

TITLE:

Repairing Defects by Welding

PERIODICAL: V sb. Uluchsheniye kachestva stal'nykh otlivok.M., Mashgiz, 1958,

187 - 199

ABSTRACT:

Grades and mechanical qualities of cast metals of carbon steel and highalloy steel are given and of metals built up with electrodes of well-known grades. The plastic properties and ak of the built up metal are in almost every case higher than those of the cast steels. Types and grades of electrodes for the welding of defects in cast material of high-alloy steel and the technological process of recovering rejected castings are

investigated. 4 figures.

T.A.P.

Card 1/1

PETRAN, Miroslav, promovany geolog

Profile and contour methods of aerial radiometric survey. Geol pruzkum 6 no. 3:78-80 Mr '64.

1. Central Geological Institute, Prague.

The state of the s

BURESH, Ya. [Bures, Jan]; PETRAN', M. [Petran, Mojmir]; ZAKHAR, I. Zachar, Jozef]; KEDFR-STEPANOVĀ, I.A. [translator]; S. HUNOV, G.D., red.; RAYSKAYA, N.A., red.; YANOVSKAYA, Ye.A., red.; REZOUKHOVA, A.G., tekhn. red.

[Electrophysiological methods of research]Elektrofiziologicheskie metody issledovaniia. Pod red. i s predisl. G.D.Smirnova. Moskva, Izd-vo inostr. lit-ry, 1962. 454 p. Translated from the Czech.

(MIRA 15:12)

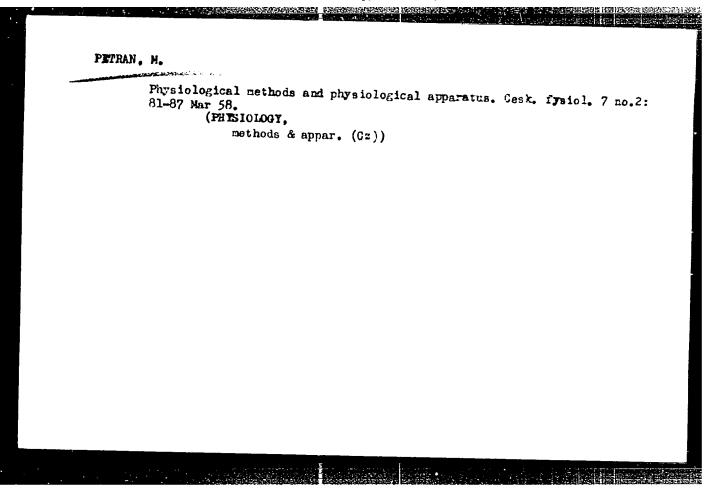
(Electrophysiology)

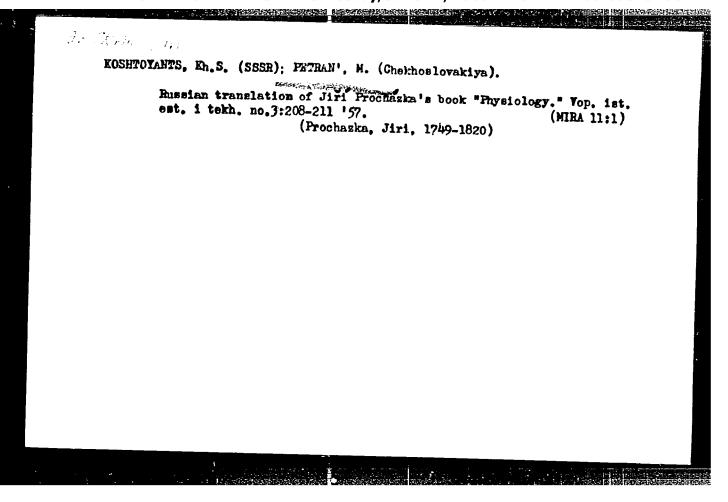
# "APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

V. Kruta's <u>Jiri Prochaska, M.D.</u>; a review of a biography, p. 506. (CESKOSLOVENSKA FYSIOLOGIE, Vol. 5, No. 4, 1950, Praha, Czechoslovakia)

PETRAL, M.

SO: Monthly List of East European Accessions (bEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.





#### PETRAN, M.

Improved method of oscillography on moving film, Ceak, fysiol, 1 no. (CIML 23:4)

1. Of the Physiological Department of the Central Institute of Biology (Director--Malek).

Studies on convulsions with electroshock. Gesk. fysiol. 1 no.1:9-17 1952. (CLNL 23:4)

1. Of the Physiological Department of the Central Institute of Biology.

# PETRAN, M.

"I. Lesny's Zaklady Neurologicke Elektrodiagnostiky (Elements of Neurological Electrodiagnostics); a Book Review." p. 102, (CESKOSLOVENSKA FYSIOLOGIE, Vol. 3, No. 1, Jan. 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4 No. 5, May 1955, Uncl.

# "APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

"Jimple apparatus for slow infusion and a stable slow-impulse concrator to set it in motion."

Chekhoolovatskaia Fiziologiia, Praha, Vol 1, No 1, 1952, p. 323

3J: Bastern Suropean Accessions List, Vol 3, No 1, Jet 1954, Lib. of Concress

# "APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

PET	Trail, N.
Imp	croved oscillography recorded on motion-picture films. p. 167.
50 <b>:</b>	Hast European Accessions List, Vol. 3, No. 9, Sept. 1954, Lib of Congress.

# Simple apparatus for slow infusion and stable generator of slow impulses usable for application. Chekh. fixiol. 1 no.4:323-326 1952. 1. TSentral'nyy biologicheskiy institut, fisiologicheskoye otdeleniye, Fraga. (INDECTIONS, appar. for slow inject.)

PEIRAM M.

SERVIT, Z.; BURES, J.; BURESOVA, O.; PETRAN, M.

Problem of electronarcosis and of electrically induced sleep.
Chekh fiz 2 no.4:337-346 '53. (MEAL 3:7)

1. Biologicheskiy institut Chkhoslovatskoy Akademii nauk,
fisiologicheskoy otdoleniye, Praga.
(MINCTROMARCOSIS,

\*in animals)

PETRAN', M.

Simple apparatus for slow infusion and a stable slow-impulse generator to set it in motion. Chekh.fiziol. 1 no.4:323-326 '52.

(MLRA 7:4)

1. TSentral'nyy biologicheskiy institut, fiziologicheskoye otdeleniye, Praga. (Physiological apparatus)

# "APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

"Improved Oscillography Recorded on Motion-Picture Films." p. 167, Praha, Vol. 1, no. 2. Sept. 1952.

SO: Mast Buropean Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

## PETRAN, M.

Improved oscillography recorded on motion picture films [with summary in German]. Chekh. fiziol.l no.2:167-172 '52. (MESA 6:12)

1. Teentral'nyy institut biologii, fiziologicheskoye otdeleniye, Praha. (Oscillograph)

BURES, J.; PETRAN, N.

Determination of spasmodic reaction by means of electric shock [with (MIRA 6:12) summary in German] Chekh. fisiol. 1 no.1:24-37.

1. Tsentral'nyy institut biologii, fiziologicheskoye otdeleniye, Praha, (Spasms)

PETRAN, V. (382)

Z Kliniky Pracovniho Lekarstvi Karlovy; Z Kliniky Psychiatricke Karlovy Univ. v Praze. Otravy sirouhlikem v tovarne na viskosove hedvabi Carbon disulphide poisoning in a viscose silk factory Casopis Lekaru Ceskych 1948, 87/35 (936-939)

The atmospheric concentration of CS<sub>2</sub> in the workshops of a certain factory, especially in the CS<sub>2</sub> treatment plant, was 70-300 g. per litre. This led to three cases of intoxication, with paranoid schizophrenia and psychosis, and a number of milder cases.

Wolf - Prague (Sec. 1V)

So: Excerpta Medica, Vol. II, No 7, Sec. II, July 1949

# PELNAR, P.; PETRAN, V.

Chronic mercury and chloride poisoning of workers in alkali production by electrolists of basic chlorides. Pracovni lek. 3 no.1:11-29 Mar 51. (CIML 20:7)

1. Of the Chemical Plant and of the Department for Industrial Psychiatry of the Psychiatric Clinic of Charles University.

#### PETRAN, V.

والمحاد جال يوسعا

Effect of extensive noise on the mental conditions in workers. Neur. psychiat. cesk. 14 no. 5-6:217-223 Dec 1951. (CLML 22:3)

1. Of the Psychiatric Clinic (Head--Prof. Z. Hyslivecek, M. D.), Prague.

#### PETRAN. V.

Mental changes and disorders in industrial poisoning with methyl chloride. Neur. psychiat. cesk. 18 20.1:14-19 Feb 55. (METHYL CHLORIDE, poisoning indust., causing mental disord.) (MENTAL DISORDERS, etiology and pathogenesis methyl chloride pois., indust.) (POISONING, complications methyl chloride indust. pois. causing mental disord.)

# PETRAN, Vaclay

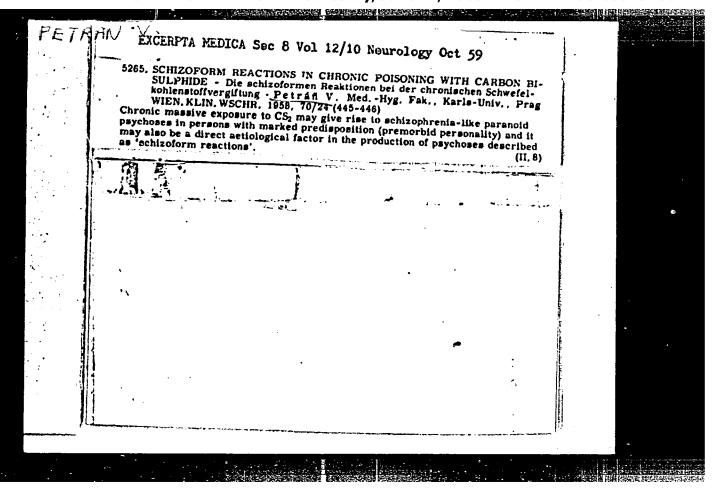
Certain aspects of toxicomanias. Cas.lek.cesk 99 no.29:1079-1082

A STATE OF THE STA

1. Subkatedra psychiatrie lekarske fakulty hygienicke KU v Praze. (DRUG ADDICTION)

# PETRAN, Vaclay Prevention of premature senility from psychiatric viewpoint. Gesk. psychiat. 55 no.4:240-247 June 59.

1. Subkatedra psychiatrie lekarske fakulty hygienicke KU v Praze. (AGING)



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The second supplies of the sup

## PETRAN, V.

Achievements of Soviet psychiatry. II. Institutional psychiatric care. Cesk. psychiat. 55 no.2:127-136 Apr 59.

(HOSPITALS, PSYCHIATRIC, in Russia (Rus))

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DOBIAS. Jan; DOBRY, Jaroslav; FETHAN, Vaclav

Decompensation of abnormal personalities in marital life. Cesk. paychiat. 54 no.4:223-228 Aug 58.

1. Psychiatricka klinika KU v Praze. J. D., Ke Karlovu II, Praha 2.

(PYRSONALITY, PATHOLOGICAL psychopaths, showing hypererotism in marital life (Cz))

(SEXUAL BEHAVIOR hypererotism of psychopaths in marital life (Cz))

(MARRIAGE same)
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Petron V.

CZECHOSLOVAKIA/Safety Engineering. Sanitary Engineering. L Sanitation.

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 10696

Author : Petran, Vo. Inst : Not given

Title : Psychic Effects of Occupational Methyl Chloride Poisoning

Orig Pub: Neurol. a psychiatr. ceskosl., 1955, Vol 18, No 1, 14-19, (in Czech with summaries in English and Russian)

Abstract: Persons exposed to prolonged contact with CH3Cl (workers

in refrigeration plants, etc.) have been observed to display a neurasthenic syndrome accompanied by depression, dullness, and neurovegetative dystony, sometimes also partial amnesia, a state of simple or pathologic intoxication, deep depression with tendencies to suicide, feel-

ings of guilt, and hallucinations.

Card 1/1

# "APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

# PETRANEK, J.

"Sedimentological Aspects of the Question of the Pre-Hercynian Crystalline Schists in Central Bohemia", P. 1, (SBORNIK. ODDIL GEOLOGICKY, Vol. 20, 1953, Praha, Czech.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 3, Mar 1955, Uncl.

PETRANEK, J.; STENGLOVA, E.

"Authigenic Quartz in the Devonian Limestones of Central Bohemia", P. 149, (SBORNIK. ODDIL GEOLGICKY, Vol. 20, 1953, Praha, Czech.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 3, Mar 1955, Uncl.

PETRANEK, J.

"The alga Cf. acicularia sp. (Acetabularieae) in the Triassic limestone of the Carpathian Mountains."

p.400 (Casopis Pro Mineralogii A Geologii, Vol. 2, no. 4, 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 8, August 1958

PETRANEK, J. "Notes on the petrography of ore deposits in Ejpovice." p.451 (Casopis Pro Mineralogii A Geologii, Vol. 2, no. 4, 1957, Praha,

Czechoslovakia)

Monthly Index of East European Accessions (EFAI) LC, Vol. 7, No. 8, August 1958

Microdetermination of halogens in loguid substances by means of the Schoniger method. Chem C2 Chem 29 no.11228,7-2850 N 164.

1. Institut fur makromolekulare Chemie, Tschechoslovacia che Akademie der Wissenschaften, Fragus.

PETRANEK, J.

"Composition of the Triassic limestone from Gombasek in the Karst of southern Slovakia"

Sbornik. Oddil geologicky. Praha, Czechoslovakia. Vol. 24, no. 1, 1957 (published 1958)

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclas

FIRRADEN, J.

"Vrstevnatest, stratification and <u>revesteeni</u> straticulation of collectory rocks."

CASOFIS PRO MIRRALOGII & CMOLOGII, Praha, Czechoslovakia, Vel. h. Me. 2, 1959.

Nonthly list of MAST SUROPEAN ACCESSIONS FUNK (MMAI), Library of Compress, Vol. 9, No. 8, August, 1959.

Uncl: saified.

# PETRANEK, Yan [Petranek, Jan]

Transition of facies from paralic into limnic in the Upper Silesian coal basin (Czechoslovakia). Izv.AN SSSR.Ser.geol. 25 no.1:43-48 Ja '60. (MIRA 13:8)

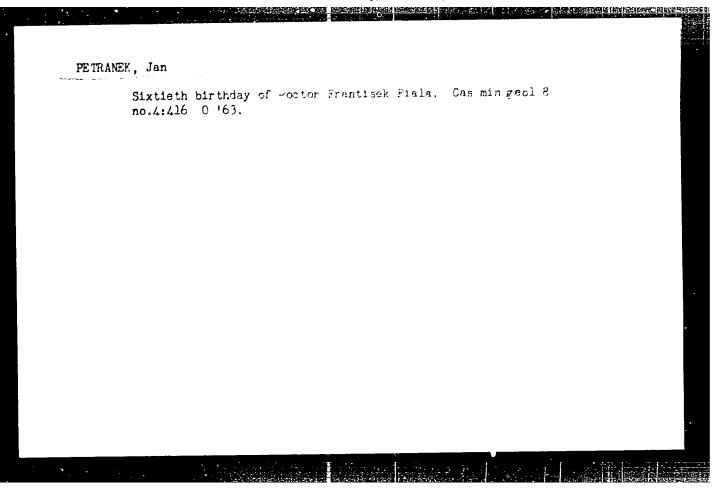
1. TSentral'nyy geologicheskiy institut, Praga.
(Ostrava-Karvina Basin--Goal geology)

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RYBA, O.; PETRANEK, J.; POSPISIL, J.

Antioxidation agents and stabilizers. Pt.4. Coll Cz Chem 3C no.3:843-852 Mr '65.

1. Institute of Macromolecular Chemistry of the Czechoslovak Academy of Sciences, Prague. Submitted February 14, 1964.



PETRANEK, J.

CZICIOCELOVAKIA

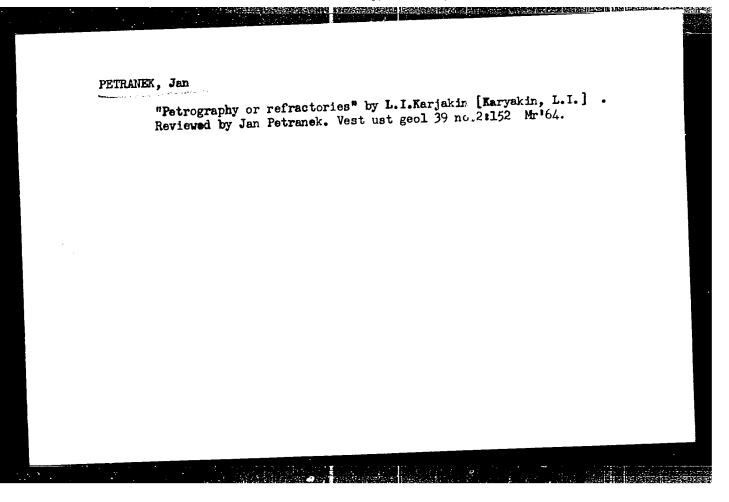
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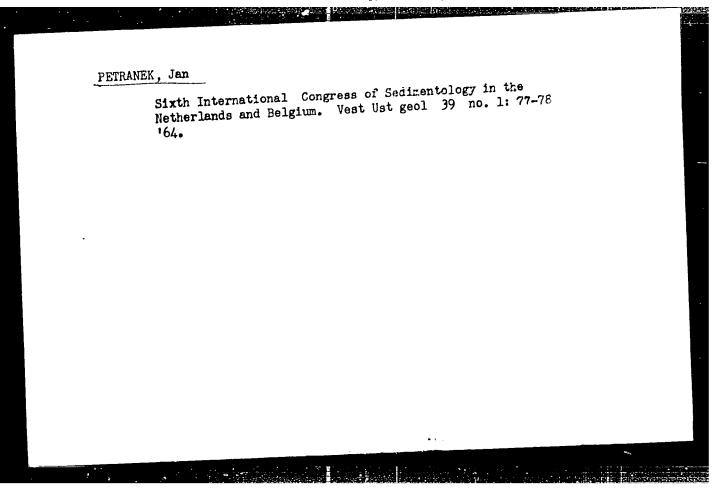
POSPISIL, J. PETRASEX, J. TAINE, L.

Institute for Hacronelecular Chemistry, Coschesiovek Academy of Sciences (Institut for unbrancleinlare Chemis, Techechesiowakinsche Abademie der Viscenschuften) $_{\rm B}$  Frague — (for ell)

Progres, Collection of Crecheslern's Chemical Communications, No 1, January 1966, pp 98-205

"Antimidants and stabilizers. Part 10: On the preparation of some alkalize derivatives of hydroquizers."

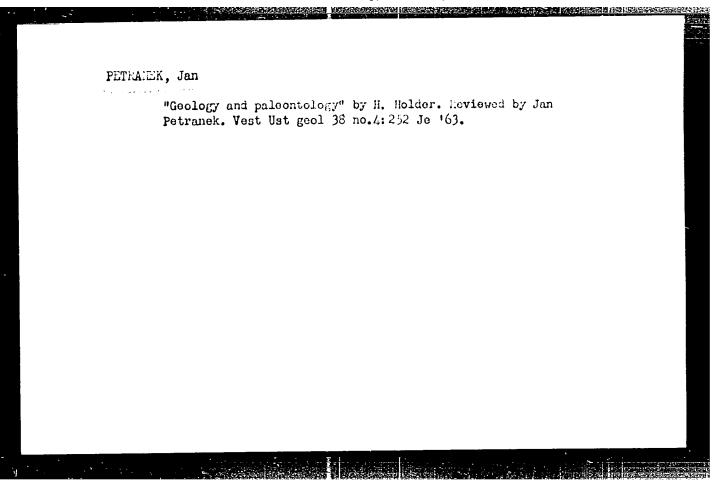


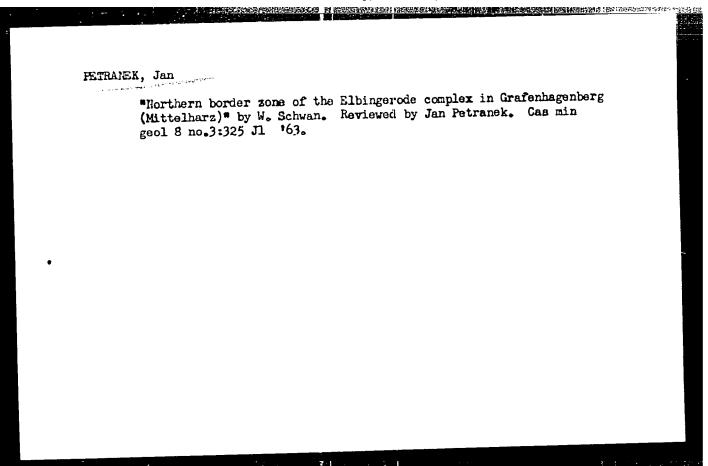


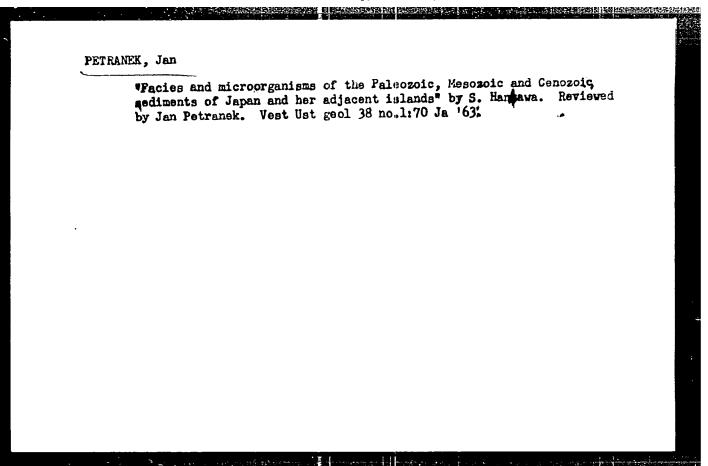
PETRANEK, Jan, prof. inz.

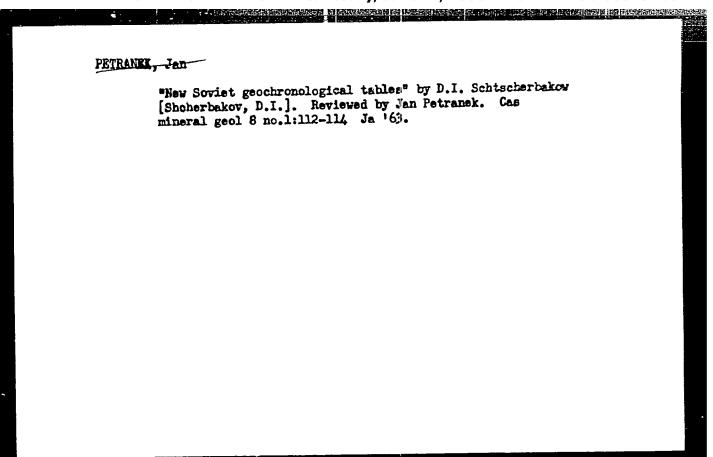
Study course on the construction of automobile bodies at the Institute of Mechanical Engineering. Podn org 18 no.7:296 J1:64.

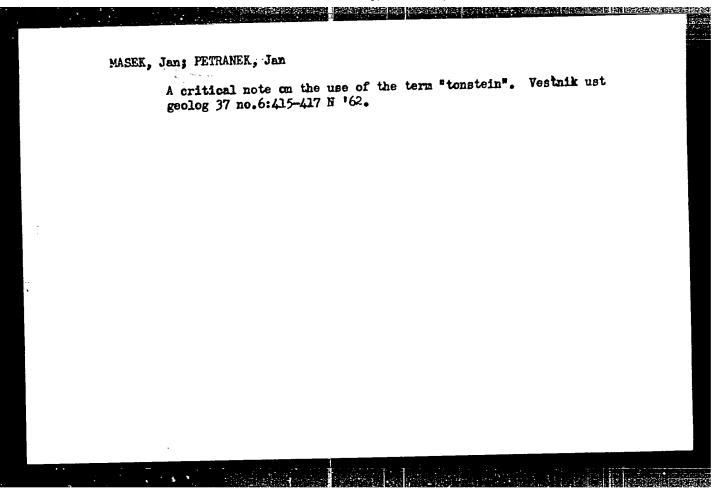
1. Czech Higher School of Technology, Prague, Chair of Automobiles, Tractors and Agricultural Machines.

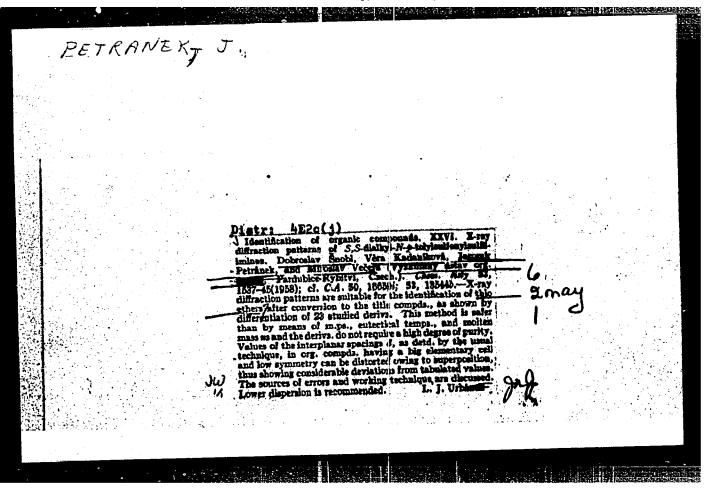












# PETRANEK, JAROMIR

CZECHOSLOVAKIA/Analytic Chemistry - Analysis of Organic Substances.

E-3

Abs Jour

: Ref Zhur - Khimiya, No 14, 1958, 46452

Author

XVII - Miroslav Vecera, JiriBorecky. XVIII - Miroslav Vecera, Jaromir Petranek, Jiri Gasparic. XIX - Miroslav Vecera, Jiri Gasparic, Antonin Spevak.

Inst

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Title

Identification of Organic Substances. XVII. Identification of Anthraquinone Sulfoacids. XVIII. Chromatography of Aromatic Hydrazo Compounds. XIX. Microidentification of Lower Aliphatic Alcohols and O-Alkyl and N-Alkyl.

Groups by Paper Chromatography.

Orig Pub

Chem. listy, 1957, 51, No 5, 974-976; No 8, 1553-1554; 1554-1556; reports VII, VIII, Collect. czechosl. chem. commun., 1958, 23, No 1, 130-133; No 2, 333-335.

Abstract

: XVII. The benzylthiuronic (I) and 1-naphthylmethylthiu-

ronic (II) salts of mono- and disulfo acids of

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APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R0012403

CZECHOSLOVAKIA/Analytic Chemistry - Analysis of Organic Substances.

E-3

Abs Jour

: Ref Zhur - Khimiya, No 14, 1958, 46452

in alcohol (IV) or 10%-ual solution of formamide in alcohol (V) and dried. From 0.5 to 200 Y of the sample in 0.1 to 1%-ual alcohol or ether solution is put on the paper. It is developed by the descending method at 21 ± 10 with cyclohexane or benzene. The dried chromntogram is sprayed with 1%-ual solution of n-dimethylaninobenzaldehide (VI) in 95 parts of alcohol and 5 parts of concentrated HCl. At this occasions the III-s regroup into corresponding diamines, which together with VI yield products of characteristic color and fluorescence presented in the report. The values of R. 8 of III-s are also presented. This method permits to chromatograph several hundreds of y of the substance and to identify 0.5 y of a III.; it can be used for the control of the henzidine regroupation at industrial scale. For that purpose, 10 ml of the reaction solution is

Card 3/h

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(IX). In order to convert alcohols (X) into IX-s, C.1 ml of pyridine (XI) and 1 ml of C6H6 are added to 10 ml

Card 4/6

**APPROVED FOR RELEASE: Wednesday, June 21, 2000** 

CIA-RDP86-00513R001

CZECHOSLOVAMIA/Analytic Chemistry - Analysis of Organic Substances.

E-3

Abs Jour

: Ref Zhur - Khimiya, No 14, 1958, 46452

of aqueous solution of 5 to 50 mg of X, after which ll g of K<sub>2</sub>CO<sub>3</sub> and the solution of C.5 g of 3,5-dinitrobenzoyl chloride (XII) in 2 ml of C<sub>6</sub>H<sub>6</sub> are added to it at cooling. After having shaken it 3 minutes, IX is extracted with ether, the extract is washed with 1½-unl H<sub>2</sub>SO<sub>4</sub> and water, and ether is distilled off. In the case of water-free X, 5 to 50 mg of X are dissolved in 5 ml of C<sub>6</sub>H<sub>6</sub>, 50 mg of XII and 0.3 ml of XI are added, all is boiled 1 hour, the benzene solution is cooled, washed with 20½-unl NaOH solution, with water, with 5½-unl H<sub>2</sub>SO<sub>4</sub>, and again with water, and benzene is distilled off. In order to split the alkyl groups off the alkoxy compounds and alkylamines and to obtain IX-s, 1 to 2 (2 to 5 correspondingly) mg of the substance is boiled 1 hour with HI solution in N<sub>2</sub> flow; the alkyl iodides are absorbed while forming by the suspension of 3 to 4 mg of Ag-3,5-dinitrobenzoate

Card 5/6

37

Card 6/6

CZECHCSLOVAKIA/Crganic Chemistry Theoretical and General Questions on Organic Chemistry.

G-1

Abs Jour: Ref Zhur-Khim , No 13, 1958, 43212.

Author : Vecera Miroslav, Petranek Jaromir, Gasparic Jiri

Title : Rearrangement of Substituted Aromatic Hydrazo-

Compounds.

Orig Pub: Chem. listy, 1957, 51, No 5, 911-919; Sb chekhosl.

khim rabot, 1957, 22, No 5, 1603-1612.

Abstract: A study of the rearrangement of hydrazo-benzene

(I), 2- and 4-methyl-hydrazo-benzene (II, III), 2,2'-and

4,4'-dimethyl-hydrazobenzene (IV, V), 4-acetamidohydrazo-benzene (VI), N-acetyl-hydrazobenzene (VII) and 1,1'-hydrazo-naphthalene (VIII), by action of a solution of HCl in alcohol, or of dry HCl in absence

Card : 1/3

CZECHCSLCVAKTA/Organic Chemistry. Theoretical and General Questions on Organic Chemistry

G-1

Abs Jour: Ref Zhur-Khim., No 13, 1958, 43212.

of a solvent, at about 20°. The rearrangement products (RP) were isolated by paper chromatography, purified by crystallization and also by chromatography on silica gelimpregnated with directly formamide, and were identified by color reactions and fluorescence reactions. Among the RP were found benzidine (IX), diphenylene (X), o-benzidine (XI), o-semidine (XII), p-semidine (XIII), the corresponding azo-compounds (Ia-VIIIa), aniline (XIV). Listing the initial substance and isolated RP:

I, IX-XIV, Ia; II, IX-XIII, IIa; III, X-XIII, IIIa; IV, IX-XIII, IVa; V, XI, XII, XIV, Va; VI, XII-XIV, VIa; VII, IX, X; VIII, IX-XIV, VIIIa. Velocity of competing reactions, and proportions of

Card : 2/3

3

# "APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001240

CZECHCSLCVAKIA/Crganic Chemistry. Theoretical and General Questions on Organic Chemistry.

G-1

Abs Jour: Ref Zhur-Khim., No 13, 1958, 43212.

the bases that are formed, are affected by the solvent. In polar media there are formed compounds of the type ix, x; in non-polar solvents and in absence of solvent are formed bases of the type XIII and other products of semidine rearrangement. The distribution order of IX-XIII on chromatograms is always the same. Bases IX-XIII on chromatograms is always the same. Bases of type IX have lowest R, values, bases of type XIII of type IX have lowest R, values, bases of type IX have lowest R, values, bases of

card : 3/3

identification of organic configureds. XXIV. Separation and identification of salfides by paper chromatography. I Jaronic Petranck and Miroslav Vetera (Vizk. distay org. 3 ynth... Pardnice-Rybitvi, Czechoslov.). Chem. Jisty 52. 1279-82(1958); cf. C.A. 52, 13544).—Org. sulfides fmay be seed, and identified in the form of the p-nirobranensis flowly sulfilminas (I) on paper impregnated with HCONH, using CiH. or CiHrcycloherane as the moving phase. polyCiHrsOnNH, (6 g.) is dissolved in 1 g. NaOH in 10 ml. Hi-O, the sola. cooled to 10° and, before the sulfonamide Na salt begins to sep., 17 ml. cool NaOCI sola. added (contg. 1.95 g. NaOCI and prepd. by passing 7 g. Cl into 8 g. NaOH in 10 ml. Hi-O and 30 g. ice). The p-nirobranensis/lockloro-samide Na soli (II) is filtered off and recrystd. from 5-6 ml. Hi-O to yield 6 g. yellow crystals contg. 23.5-5.3% active 

XXV. Identification and separation of allphatic C<sub>1</sub>-C<sub>2</sub> alcohols/by paper chromatography. Jiif Borrek? Jiii Casoarie, and Miroslav Vecera. Ibd. 1283-8.—Alphatic graphed as 3,5-dinitrobenzoacic on Whatman No. 3 impregnated with 10% paraffin oil in cyclohexane. New systems of solvents contg. HCONH<sub>2</sub> (I) and HCONH<sub>2</sub> (II) were used as the mobile phase. For preliminary information is recommended the system 16:4:4 II-MeOH-II<sub>2</sub>O where C<sub>1</sub>-C<sub>4</sub> alcs. are in the front and C<sub>1</sub>-m alcs. near the start. The following systems are suitable for given alcs.: 30:70 I-H<sub>2</sub>O, C<sub>2</sub>-C<sub>4</sub>: 50:50 I-H<sub>2</sub>O, C<sub>2</sub>-C<sub>4</sub>: 70:30 I-H<sub>2</sub>O, C<sub>3</sub>-C<sub>4</sub>: 10:10:1 II-MeOH-II<sub>2</sub>O, C<sub>6</sub>-C<sub>10</sub>: 70:30 I-H<sub>2</sub>O, cyclainois C<sub>1</sub>-C<sub>1</sub>: 70:10:1 II-MeOH-II<sub>2</sub>O, C<sub>6</sub>-C<sub>10</sub>: 70:30 I-H<sub>2</sub>O, cyclainois C<sub>7</sub>-C<sub>7</sub>: 10:10:1 II-MeOH-II<sub>2</sub>O, C<sub>6</sub>-C<sub>10</sub>: 70:30 I-H<sub>2</sub>O, cholesterol. The alca in the lease of the layer of the layer

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